## F10000255

## 1. Use of a compound of formula I,

**CLAIMS** 

5 wherein,

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X is CR<sub>2</sub>R<sub>2</sub>', O, S or NR<sub>2</sub>;

Z is -CHR<sub>8</sub>-(CH<sub>2</sub>)n- or a single bond;

R<sub>1</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, halogen, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, CN, NO<sub>2</sub>, NH<sub>2</sub>, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino or carboxyl;

R<sub>2</sub> and R<sub>2</sub>' are independently H, hydroxy or (C<sub>1</sub>-C<sub>6</sub>)alkyl or R<sub>2</sub> and R<sub>2</sub>' form, together with the carbon ring atoms to which they are attached, a carbonyl group;

 $R_3$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_3-C_7)$ cycloalkyl,  $(C_3-C_7)$ cycloalkyl $(C_1-C_6)$ alkyl, aryl, aryl $(C_1-C_6)$ alkyl, aryloxy, aryl $(C_1-C_6)$ alkoxy, aryloxy $(C_1-C_6)$ alkyl, aryl $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkoxy

 $C_6$ )alkyl, NH<sub>2</sub>, amino( $C_1$ - $C_6$ )alkyl, mono- or di( $C_1$ - $C_6$ )alkylamino,mono- or di( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkyl-CO-, ( $C_1$ - $C_6$ )alkyl-CO-O-( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy-CO-, ( $C_1$ - $C_6$ )alkoxy-CO-( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, carbamoyl, mono- or di( $C_1$ -

C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or NO<sub>2</sub>, or one of R<sub>3</sub> or R<sub>4</sub> and R<sub>6</sub> together form a bond between the ring atoms to which they are attached;

 $R_4$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;





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R<sub>5</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>- $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, ( $C_3$ - $C_7$ )cycloalkyl, ( $C_3$ - $C_7$ )cycloalkyl( $C_1$ - $C_6$ )alkyl, aryl,  $aryl(C_1-C_6)alkyl$ , aryloxy,  $aryl(C_1-C_6)alkoxy$ ,  $aryloxy(C_1-C_6)alkyl$ ,  $aryl(C_1-C_6)alkyl$  $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkyl-CO-O-, ( $C_1$ - $C_6$ )alkyl-CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or  $di(C_1-C_6)alkyl-s-(C_1-C_6)alkyl$ , wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or NO2, or R4 and R5 form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring substituted with 1 to 3 substituent(s) R<sub>9</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen,  $NH_2$ ,  $NO_2$ ,  $(C_3-C_7)$ cycloalkyl, hydroxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>- $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>- $C_6$ )alkyl, carbamoyl mono- or di( $C_1$ - $C_6$ )alkylcarbamoyl or oxo;

 $R_6$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $R_6$  forms a bond between the ring atom to which it is attached and the ring atom to which  $R_7$  is attached;

 $R_7$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

R<sub>8</sub> is H,hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy or (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl or, only when n is 0, R<sub>7</sub> and R<sub>8</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring unsubstituted or substituted with 1 to 3 substituent(s) R<sub>10</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-o-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

 $R_{15}$  is H,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono- or di $(C_1-C_6)$ alkylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl-CO-,



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(C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or carboxyl;

 $R_{16}$  is H or  $(C_1-C_6)$ alkyl;

 $R_7$  and  $R_8$  are attached to the carbon ring atoms, which are adjacent; m is 0 to 2; and n is 0 or 1,

or a pharmaceutically acceptable salt or ester thereof, with the proviso, that the compound is not 1,2,3,4,5,10b-hexahydro-10-thia-3a-aza-cyclopenta[a]fluorine, for the manufacture of a medicament for the treatment of diseases or conditions where antagonists of alpha-2 adrenoceptors are indicated to be useful.

- 2. The use of a compound according to claim 1, wherein X is NR<sub>2</sub>.
- The use of a compound according to any one of claims 1 or 2, wherein m is 0, n is 0, R<sub>2</sub> is H, R<sub>3</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO- or (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, R<sub>4</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl or hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, R<sub>5</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl, R<sub>6</sub> is H or (C<sub>1</sub>-C<sub>6</sub>)alkyl and R<sub>7</sub> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl or hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl.
  - 4. The use of a compound according to any one of claims 1 to 3, wherein  $R_3$  is H or  $(C_1-C_6)$  alkyl and  $R_4$  is hydroxy or hydroxy $(C_1-C_6)$  alkyl.
  - 5. The use of a compound according to any one of claims 1 or 2, wherein  $R_4$  and  $R_5$  form, together with the carbon ring atoms to which they are attached, a condensed six membered saturated carbocyclic ring.
- 30 6. The use of a compound according to any one of claims 1 or 2, wherein R<sub>4</sub> and R<sub>6</sub> together form a bond between the ring atoms to which they are attached or R<sub>6</sub> forms a bond between the ring atom to which it is attached and the ring atom to which R<sub>7</sub> is attached.





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- 7. The use of a compound according to any one of claims 1 to 5, wherein the compound is  $1\alpha$ -ethyl-1,2,3,4,6,7,12,12b $\beta$ -octahydro-indolo[2,3-a]quinolizin-1-ol, (1 $\beta$ -ethyl-1,2,3,4,6,7,12,12b $\alpha$ -octahydro-indolo[2,3-a]quinolizin-1-yl)-methanol,  $1\alpha$ -Methyl-1,2,3,4,6,7,12,12b $\beta$ -octahydroindolo[2,3-a]quinolizin-1-ol, (1 $\alpha$ -Methyl-1,2,3,4,6,7,12,12b $\beta$ -octahydroindolo[2,3-a]quinolizin-1-yl)-methanol or 3,4,4 $a\beta$ ,5,6,7,8,13,13b $\beta$ ,13c $\alpha$ -decahydro-2H-6a,13-diaza-indeno[1,2-a]phenanthren-1-one.
- 8. The use of a compound according to claim 1, wherein X is CR<sub>2</sub>R<sub>2</sub>'.
- 9. The use of a compound according to claim 1, wherein X is O
- 10. The use of a compound according to claim 1, wherein X is S.
- 11. The use of a compound according to any one of claims 1 to 10, for the manufacture of a medicament for the treatment of a disorder of the central nervous system, diabetes, orthostatic hypotension, lipolytic disorders, Raynaud's disease or male and female sexual dysfunctions.
- 20 12. The use according to claim 11, wherein the disorder of the central nervous system is depression, anxiety disorders, post-traumatic stress disorder, schizophrenia, Parkinson's disease, or another movement disorder.
- 13. The use of a compound according to any one of claims 1 to 10 for the manufacture of a medicament for use as a selective alpha-2C antagonist.
  - 14. The use according to claim 13 for the manufacture of a medicament for the treatment of mental disorders propagated by stress, Parkinson's disease, depression, negative symptoms of schizophrenia, attention deficit hyperactivity disorder, post-traumatic stress-disorder, or anxiety disorders.
  - 15. A compound of formula IA



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$$(R_1)$$
m  $R_{16}$   $R_{15}$   $R_{15}$   $R_{3}$   $R_{4}$   $R_{5}$   $R_{6}$   $R_{7}$ 

wherein,

X is CR<sub>2</sub>R<sub>2</sub>', O or S;

Z is -CHR<sub>8</sub>-(CH<sub>2</sub>)n- or a single bond;

R<sub>1</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, halogen, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, CN, NO<sub>2</sub>, NH<sub>2</sub>, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino or carboxyl;

R<sub>2</sub> and R<sub>2</sub>' are independently H, hydroxy or (C<sub>1</sub>-C<sub>6</sub>)alkyl or R<sub>2</sub> and R<sub>2</sub>' form, together with the carbon ring atoms to which they are attached, a carbonyl group;

R<sub>3</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryloxy, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, NH<sub>2</sub>, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino,mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-

CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or NO<sub>2</sub>, or one of R<sub>3</sub> or R<sub>4</sub> and R<sub>6</sub> together form a bond between the ring atoms to which they are attached;

 $R_4$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

R<sub>5</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryloxy, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-



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 $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO- $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, carbamoyl, mono- or di $(C_1-C_6)$ alkylcarbamoyl, carboxyl or  $(C_1-C_6)$ alkyl-S- $(C_1-C_6)$ alkyl, wherein the said  $(C_3-C_7)$ cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy,  $(C_1-C_6)$ alkyl, halogen,  $(C_1-C_6)$ alkoxy, NH<sub>2</sub>, CN or

NO<sub>2</sub>, or R<sub>4</sub> and R<sub>5</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring substituted with 1 to 3 substituent(s) R<sub>9</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkyl

 $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, carboxyl, ( $C_1$ - $C_6$ )alkyl-CO-, ( $C_1$ - $C_6$ )alkyl-CO-, ( $C_1$ - $C_6$ )alkyl, carbamoyl mono- or di( $C_1$ - $C_6$ )alkylcarbamoyl or oxo;

 $R_6$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $R_6$  forms a bond between the ring atom to which it is attached and the ring atom to which  $R_7$  is attached;

 $R_7$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

R<sub>8</sub> is H,hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy or (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl or, only when n is 0, R<sub>7</sub> and R<sub>8</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring unsubstituted or substituted with 1 to 3 substituent(s) R<sub>10</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

 $R_{15} \text{ is H, } (C_1\text{-}C_6)\text{alkyl, } (C_2\text{-}C_6)\text{alkenyl, hydroxy}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkyl, hydroxy}(C_1\text{-}C_6)\text{alkoxy}(C_1\text{-}C_6)\text{alkyl, halo}(C_1\text{-}C_6)\text{alkyl, amino}(C_1\text{-}C_6)\text{alkyl, mono- or di}(C_1\text{-}C_6)\text{alkylamino}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkyl-CO-, } (C_1\text{-}C_6)\text{alkyl-CO-O-}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkoxy-CO-, } (C_1\text{-}C_6)\text{alkoxy-CO-(}(C_1\text{-}C_6)\text{alkoxy-CO-(}(C_1\text{-}C_6)\text{alkoxy-CO-(}(C_1\text{-}C_6)\text{alkoxy-CO-(}(C_1\text{-}C_6)\text{alkoxy-CO-(}(C_1\text{-}C_6)\text{alkyl, carbamoyl, mono- or di}(C_1\text{-}C_6)\text{alkylcarbamoyl or carboxyl;}$ 

 $R_{16}$  is H or  $(C_1-C_6)$ alkyl;



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 $R_7$  and  $R_8$  are attached to the carbon ring atoms, which are adjacent; m is 0 to 2; and n is 0 or 1,

or a pharmaceutically acceptable salt or ester thereof, with the provisos, that

- a) when X is O, m is 0 and n is 0, then  $R_3$ - $R_8$  are not all simultaneously hydrogen;
- b) the compound is not 1,2,3,4,5,10b-hexahydro-10-thia-3a-aza-cyclopenta[a]fluorene; 1,3,4,5,6,11b-hexahydro-2H-11-thia-4a-aza-benzo[a]fluorene; 1-(1,3,4,5,6,11b-hexahydro-2H-11-thia-4a-aza-benzo[a]fluoren-1-yl)-ethanone or 1,3,4,5,6,11b-hexahydro-2H-11-thia-4a-aza-benzo[a]fluorene-1-carboxylic acid methyl ester.
- 16. A compound according to claim 15, wherein X is CR<sub>2</sub>R<sub>2</sub>'.
- 15 17. A compound according to claim 15, wherein X is O.
  - 18. A compound according to claim 15, wherein X is S.
- 19. A compound according to any one of claims 15 to 18, wherein R<sub>3</sub> is hydroxy,
  20 (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-Or (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-Or (C<sub>1</sub>-C<sub>6</sub>)alkyl and R<sub>4</sub> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl or hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl.
- 20. A compound according to any one of claims 15 to 19, wherein R<sub>3</sub> is hydroxy, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl or (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl and R<sub>4</sub> is (C<sub>1</sub>-C<sub>6</sub>)alkyl.
  - 21. A compound according to any one of claims 15 to 18, wherein  $R_4$  and  $R_5$  form, together with the carbon ring atoms to which they are attached, a condensed six membered saturated carbocyclic ring.
  - 22. A compound according to any one of claims 15 to 21, wherein the compound is  $1\alpha$ -Methyl-1,3,4,5,6,11b-hexahydro-2H-11-oxa-4a-aza-benzo[a]fluoren-1-ol, ( $1\alpha$ -Methyl-1,3,4,5,6,11b $\beta$ -hexahydro-2H-11-oxa-4a-aza-benzo[a]fluoren-1-yl)-







methanol, (-)-(1α-Methyl-1,3,4,5,6,11bβ-hexahydro-2H-11-oxa-4a-azabenzo[a]fluoren-1-yl)-methanol, (+)- $(1\alpha$ -Methyl-1,3,4,5,6,11b $\beta$ -hexahydro-2H-11oxa-4a-aza-benzo[a]fluoren-1-yl)-methanol, 1α-Isopropyl-1,3,4,5,6,11b-Hexahydro-2H-11-oxa-4a-aza-benzo[a]fluoren-1-ol,  $1\alpha$ -Ethyl-1,3,4,5,6,11b $\beta$ -hexahydro-2H-11oxa-4a-aza-benzo[a]fluoren-1-ol, (1α-Ethyl-1,3,4,5,6,11bβ-hexahydro-2H-11-oxa-5 4a-aza-benzo[a]fluoren-1-yl)-methanol, 1-Methyl-1α,3,4,6,11bβ-hexahydro-2H-11oxa-4a-aza-benzo[a]fluorene, (1-Hydroxymethyl-1,3,4,5,6,11b-hexahydro-2H-11oxa-4a-aza-benzo[a]fluoren-1-yl]-methanol, 1-Methoxymethyl- $1\alpha$ -methyl-1,3,4,5,6,11b $\beta$ -hexahydro-2H-11-oxa-4a-aza-benzo[a]fluorene, (-)-1-Methoxymethyl-1α-methyl-1,3,4,5,6,11bβ-hexahydro-2H-11-oxa-4a-aza-10 benzo[a]fluorene, (+)-1-Methoxymethyl-1α-methyl-1,3,4,5,6,11bβ-hexahydro-2H-11-oxa-4a-aza-benzo[a]fluorene,  $1\alpha$ -Methyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4a-aza-benzo[a]fluorene-1-carboxylic acid ethyl ester, 1-Ethoxymethyl-1α-methyl-1,3,4,5,6,11bβ-hexahydro-2H-11-oxa-4a-aza-benzo[a]fluorene, (1α-Methyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4a-aza-benzo[a]fluoren-1-yl)-methanol, (-)-15  $(1\alpha$ -Methyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4a-aza-benzo[ $\alpha$ ]fluoren-1-yl)methanol, (+)- $(1\alpha$ -Methyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4a-azabenzo[a]fluoren-1-yl)-methanol,  $1\alpha$ -Ethyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4aaza-benzo[a]fluorene-1-carboxylic methyl ester, 1-Methoxymethyl-1α-methyl-20 1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4a-aza-benzo[a]fluorene, (-)-1-Methoxymethyl- $1\alpha$ -methyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-11-oxa-4a-aza-

23. A compound of formula IB

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benzo[ $\alpha$ ]fluorene, (+)-1-Methoxymethyl-1 $\alpha$ -methyl-1,3,4,5,6,11b $\alpha$ -hexahydro-2H-

11-oxa-4a-aza-benzo[a]fluorene,  $(1\alpha-Ethyl-1,3,4,5,6,11b\alpha-hexahydro-2H-11-oxa-hexahyd$ 

4a-aza-benzo[a]fluorene-1-yl)-methanol, acetic acid  $1\alpha$ -Methyl-1,3,4,5,6,11b $\beta$ -

hexahydro-2H-11-oxa-4a-aza-benzo[a]fluoren-1-ylmethyl ester or (1α-Methyl-

 $1,2,3,4,6,7,12,12b\alpha$ -octahydroindeno[2,1-a]quinolizin-1-yl)-methanol.



$$R_{16}$$
 $R_{15}$ 
 $R_{15}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{6}$ 
 $R_{7}$ 

wherein,

X is NR<sub>2</sub>;

5  $R_2$  is  $(C_1-C_6)$ alkyl;

Z is -CHR<sub>8</sub>-(CH<sub>2</sub>)n- or a single bond;

R<sub>1</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, halogen, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, CN, NO<sub>2</sub>, NH<sub>2</sub>, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino or carboxyl;

R<sub>3</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryloxy, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, NH<sub>2</sub>, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino,mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-

CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or
 NO<sub>2</sub>, or one of R<sub>3</sub> or R<sub>4</sub> and R<sub>6</sub> together form a bond between the ring atoms to

which they are attached;

 $R_4$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

R<sub>5</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryloxy, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-

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 $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO- $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, carbamoyl, mono- or di $(C_1-C_6)$ alkylcarbamoyl, carboxyl or  $(C_1-C_6)$ alkyl-S- $(C_1-C_6)$ alkyl, wherein the said  $(C_3-C_7)$ cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy,  $(C_1-C_6)$ alkyl, halogen,  $(C_1-C_6)$ alkoxy, NH<sub>2</sub>, CN or

- NO<sub>2</sub>, or R<sub>4</sub> and R<sub>5</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring substituted with 1 to 3 substituent(s) R<sub>9</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkyl,
- C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

 $R_6$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $R_6$  forms a bond between the ring atom to which it is attached and the ring atom to which  $R_7$  is attached;

 $R_7$  is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy or (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl;

R<sub>8</sub> is H,hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy or (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl or, only when n is 0, R<sub>7</sub> and R<sub>8</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring unsubstituted or substituted with 1 to 3 substituent(s) R<sub>10</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-o-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

 $R_{15} \text{ is H, } (C_1\text{-}C_6)\text{alkyl, } (C_2\text{-}C_6)\text{alkenyl, hydroxy}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkoxy}(C_1\text{-}C_6)\text{alkyl, halo}(C_1\text{-}C_6)\text{alkyl, halo}(C_1\text{-}C_6)\text{alkyl, halo}(C_1\text{-}C_6)\text{alkyl, amino}(C_1\text{-}C_6)\text{alkyl, mono- or di}(C_1\text{-}C_6)\text{alkylamino}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkyl-CO-, } (C_1\text{-}C_6)\text{alkyl-CO-}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkoxy-CO-, } (C_1\text{-}C_6)\text{alkoxy-CO-}(C_1\text{-}C_6)\text{alkoxy-CO-}(C_1\text{-}C_6)\text{alkoxy-CO-, arbanoyl, mono- or di}(C_1\text{-}C_6)\text{alkylcarbamoyl or carboxyl;}$ 

 $R_{16}$  is H or  $(C_1-C_6)$ alkyl;



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 $R_7$  and  $R_8$  are attached to the carbon ring atoms, which are adjacent; m is 0 to 2; and n is 0 or 1,

or a pharmaceutically acceptable salt and ester thereof, with the provisos, that

- a) when m is 0 or R<sub>1</sub> is methoxy and R<sub>4</sub> is H or ethyl, then R<sub>3</sub> is not methoxy-CO;
- b) the compound is not 12-Methyl-1,2,3,4,6,7,12,12b-octahydro-indolo[2,3-a]quinolizine; 1-Ethyl-12-methyl-1,2,3,4,6,7,12,12b-octahydro-indolo[2,3-a]quinolizine; 2,3-Diethyl-12-methyl-1,2,3,4,6,7,12,12b-octahydro-indolo[2,3-a]quinolizine; 12-Methyl-1,2,3,4,6,7,12,12b-octahydro-indolo[2,3-a]quinolizin-1-ol; 2-(1-Ethyl-12-methyl-1,2,3,4,6,7,12,12b-octahydro-indolo[2,3-a]quinolizin-1-yl)-ethanol; 11-Methyl-2,3,5,6,11,11b-hexahydro-1H-indolizino[8,7-b]indol-1-yl)-methanol, (1,11-Diethyl-2,3,5,6,11,11b-hexahydro-1H-indolizino[8,7-b]indol-1-yl)-methanol or 3-(1-ethyl-12-methyl-1,2,3,4,6,7,12,12b-octahydro-indolo[2,3-a]quinolizin-1-yl)-propionic acid methyl ester.
- 24. A compound according to claim 23, wherein  $R_3$  is hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl and  $R_4$  is H,  $(C_1-C_6)$ alkyl or hydroxy $(C_1-C_6)$ alkyl.
- 25. A compound according to any one of claims 23 or 24, wherein the compound is 1α-Ethyl-12-methyl-1,2,3,4,6,7,12bβ-octahydro-indolo[2,3-a]quinolizin-1-ol or 1α-Ethyl-12-ethyl-1,2,3,4,6,7,12bβ-octahydro-indolo[2,3-a]quinolizin-1-ol.
- 26. A compound of formula IC

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wherein,

X is NR2;

 $R_2$  is H;

Z is -CHR<sub>8</sub>-(CH<sub>2</sub>)n- or a single bond;

n is 0;

R<sub>1</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, halogen, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, CN, NO<sub>2</sub>, NH<sub>2</sub>, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino or carboxyl;

 $R_3$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl, hydroxy $(C_1-C_6)$ alkyl,  $C_6$ )alkoxy,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_3-C_6)$ alkoxy) 10  $C_7$ )cycloalkyl,  $(C_3-C_7)$ cycloalkyl $(C_1-C_6)$ alkyl, aryl, aryl $(C_1-C_6)$ alkyl, aryloxy,  $aryl(C_1-C_6)alkoxy$ ,  $aryloxy(C_1-C_6)alkyl$ ,  $aryl(C_1-C_6)alkoxy(C_1-C_6)alkyl$ ,  $halo(C_1-C_6)alkyl$  $C_6$ )alkyl, NH<sub>2</sub>, amino( $C_1$ - $C_6$ )alkyl, mono- or di( $C_1$ - $C_6$ )alkylamino, mono- or di( $C_1$ - $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkyl-CO-, ( $C_1$ - $C_6$ )alkyl-CO-O-, ( $C_1$ - $C_6$ )alkyl-CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-15 C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or 20 NO<sub>2</sub>, or R<sub>3</sub> and R<sub>6</sub> together form a bond between the ring atoms to which they are attached;

 $R_6$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $R_6$  forms a bond between the ring atom to which it is attached and the ring atom to which  $R_7$  is attached;

 $R_7$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

R<sub>8</sub> is H,hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy or (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl or, only when n is 0, R<sub>7</sub> and R<sub>8</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring unsubstituted or substituted with 1 to 3 substituent(s) R<sub>10</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-







 $C_6$ )alkoxy-CO-, ( $C_1$ - $C_6$ )alkoxy-CO-( $C_1$ - $C_6$ )alkyl, carbamoyl, mono- or di( $C_1$ - $C_6$ )alkylcarbamoyl or oxo;

R<sub>9</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-o-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

R<sub>15</sub> is H, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or carboxyl;

R<sub>16</sub> is H or (C<sub>1</sub>-C<sub>6</sub>)alkyl;

R<sub>7</sub> and R<sub>8</sub> are attached to the carbon ring atoms, which are adjacent;

m is 0 to 2; and

r is 1 to 3;

or a pharmāceūticālly acceptāble sālt and ester thereof, with the provisos, that
the compound is not 10-methyl-5,7,7a,8,9,10,11,11ā,11b,12-decahydro-6H-6a,12diaza-indeno[1,2-a]fluorene; 3-hydroxy-1,2,3,4,4a,5,6,7,8,13,13b,13c-dodecahydro6a,13-diaza-indeno[1,2-c]phenanthrene-4-carboxylic acid methyl ester; methyl-3ethyl-1,2,3a,4,6,7,12b,12c-octahydro-3H,12H-indolo[2,3-g]cyclopent[a]indolizine-2carboxylate; methyl-1,2,3a,4,6,7,12b,12c-octahydro-3H,12H-indolo[2,3g]cyclopent[a]indolizine-2-carboxylate or 12c-ethyl-1,3a,4,6,7,12b,12c-octahydrocyclopent[1,2]indolizino[8,7-b]indol-3(2H)-one.

- 27. A compound according to claim 26, wherein r is 1 and  $R_3$  is H, hydroxy,  $(C_1-C_6)$  alkyl or hydroxy $(C_1-C_6)$  alkyl.
- 28. A compound according to any one of claims 26 or 27, wherein the compound is  $3,4,4a\beta,5,6,7,8,13,13b\beta,13c\alpha$ -decahydro-2H-6a,13-diaza-indeno[1,2-c]phenanthren-1-one, 1,2,3,4,5,6,7,8,13,13b-decahydro-6a,13-diaza-indeno[1,2-



c]phenanthrene, acetic acid  $1\alpha,2,3,4,4a\beta,5,6,7,8,13,13b\beta,13c\alpha$ -dodecahydro-6a,13-diaza-indeno[1,2-c]phenanthren-1-yl ester or acetic acid  $1\beta,2,3,4,4a\beta,5,6,7,8,13,13b\beta,13c\alpha$ -dodecahydro-6a,13-diaza-indeno[1,2-c]phenanthren-1-yl ester.

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## 29. A compound of formula ID

$$(R_1)m \xrightarrow{R_{16}} R_{15}$$

$$R_{15}$$

$$R_{3}$$

$$R_{4}$$

$$R_{5}$$

$$R_{6}$$

$$R_{10})t \quad ID$$

wherein,

X is NR<sub>2</sub>;

10 R<sub>2</sub> is H;

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Z is -CH-(CH<sub>2</sub>)n-;

n is 0;

 $R_1$  is hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy, halogen, halo $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-, CN, NO<sub>2</sub>, NH<sub>2</sub>, mono- or di $(C_1-C_6)$ alkylamino or carboxyl;

R<sub>3</sub> is H, hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>2</sub>-C<sub>6</sub>)alkenyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryloxy, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy, aryloxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, aryl(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, NH<sub>2</sub>, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino,mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or



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NO<sub>2</sub>, or one of R<sub>3</sub> or R<sub>4</sub> and R<sub>6</sub> together form a bond between the ring atoms to which they are attached;

 $R_4$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

 $R_5$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$  $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, ( $C_3$ - $C_7$ )cycloalkyl, ( $C_3$ - $C_7$ )cycloalkyl, ( $C_1$ - $C_6$ )alkyl, aryl,  $aryl(C_1-C_6)alkyl$ , aryloxy,  $aryl(C_1-C_6)alkoxy$ ,  $aryloxy(C_1-C_6)alkyl$ ,  $aryl(C_1-C_6)alkyl$  $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkyl-CO-O- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy- $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or NO<sub>2</sub>, or R<sub>4</sub> and R<sub>5</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring substituted with 1 to 3 substituent(s) Ro each independently being hydroxy; (C1=C5)alkel: halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C1-C6)alkyl, mono- or di(C1-C6)alkylamino, mono- or di(C1- $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, carboxyl,  $(C_1-C_6)$ alkyl-CO-,  $(C_1-C_6)$ alkyl-CO-O-,  $(C_1-C_6)$ alkoxy-CO-,  $(C_1-C_6)$ alkoxy-CO- $(C_1-C_6)$ alkoxy-CO-,  $(C_1-C_6)$ alkoxy-CO-, C<sub>6</sub>)alkyl, carbamoyl mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo:

 $R_6$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $R_6$  forms a bond between the ring atom to which it is attached and the ring atom to which  $R_7$  is attached;

R<sub>10</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-o-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

 $R_{15}$  is H,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl, amino $(C_1-C_6)$ alkyl, mono- or di $(C_1-C_6)$ alkylamino $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkyl-CO-,  $(C_1-C_6)$ alkyl-CO- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-,  $(C_1-C_6)$ alkoxy-CO- $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy-CO-,  $(C_1-C_6)$ alkoxy-CO- $(C_1-C_6)$ alkyl-



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 $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy-CO-( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, carbamoyl, mono- or di( $C_1$ - $C_6$ )alkylcarbamoyl or carboxyl;

 $R_{16}$  is H or  $(C_1-C_6)$ alkyl;

 $R_7$  and  $R_8$  are attached to the carbon ring atoms, which are adjacent; m is 0 to 2; and

t is 0 to 3;

or a pharmaceutically acceptable salt and ester thereof, with the provisos, that the compound is not 1,2,3,4,4a,5,6,11,11b,12,13,13a-dodecahydro-4b,11-diaza-indeno[2,1-a]phenanthrene; 1,2,3,4,4a,5,6,11,11b,12-decahydro-4b,11-diaza-indeno[2,1-a]phenanthrene; 9-methoxy-1,2,3,4,4a,5,6,11,11b,12-decahydro-4b,11-diaza-indeno[2,1-a]phenanthrene or 1-hydroxy-1,2,3,4,4a,5,6,11,11b,12,13,13a-dodecahydro-4b,11-diaza-indeno[2,1-a]phenanthrene-2-carboxylic acid methyl ester.

## 30. A compound of formula IE

$$R_{16}$$
 $R_{15}$ 
 $R_{15}$ 
 $R_{3}$ 
 $R_{4}$ 
 $R_{5}$ 
 $R_{6}$ 
 $R_{7}$ 

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wherein,

X is NR<sub>2</sub>;

R<sub>2</sub> is H;

Z is  $-CHR_8-(CH_2)n-$  or a single bond;

R<sub>1</sub> is hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, halogen, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, CN, NO<sub>2</sub>, NH<sub>2</sub>, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino or carboxyl;

 $R_3$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl,  $(C_3-C_7)$ cycloalkyl,  $(C_3-C_7)$ cycloalkyl, aryl, aryl, aryl, aryl $(C_1-C_6)$ alkyl, aryloxy, aryl $(C_1-C_6)$ alkoxy, aryloxy $(C_1-C_6)$ alkyl, aryl $(C_1-C_6)$ alkyl, halo $(C_1-C_6)$ alkyl, NH<sub>2</sub>, amino $(C_1-C_6)$ alkyl, mono- or di $(C_1-C_6)$ alkylamino,mono- or di $(C_1-C_6)$ alkyl, nono- or di $(C_1-C_6)$ alkylamino,mono- or di $(C_1-C_6)$ alkyl



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C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-O-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-(C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, NH<sub>2</sub>, CN or NO<sub>2</sub>, or one of R<sub>3</sub> or R<sub>4</sub> and R<sub>6</sub> together form a bond between the ring atoms to which they are attached;

 $R_4$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

 $R_5$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_2-C_6)$ alkenyl,  $(C_1-C_6)$ alkoxy,  $(C_1-C_6)$  $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, ( $C_3$ - $C_7$ )cycloalkyl, ( $C_3$ - $C_7$ )cycloalkyl( $C_1$ - $C_6$ )alkyl, aryl.  $aryl(C_1-C_6)alkyl$ , aryloxy,  $aryl(C_1-C_6)alkoxy$ ,  $aryloxy(C_1-C_6)alkyl$ ,  $aryl(C_1-C_6)alkyl$  $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, halo( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkyl-CO-O-(C1-C6)alkyl, (C1-C6)alkexy-CO-(C1-C6)alkexy(C1-C6)alkyl, carbamoyl; mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl, carboxyl or (C<sub>1</sub>-C<sub>6</sub>)alkyl-S-(C<sub>1</sub>-C<sub>6</sub>)alkyl, wherein the said (C3-C7)cycloalkyl or aryl is unsubstituted or substituted with 1 or 2 substituents each independently being hydroxy, (C1-C6)alkyl, halogen, (C1-C6)alkoxy, NH2, CN or NO<sub>2</sub>, or R<sub>4</sub> and R<sub>5</sub> form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated carbocyclic ring substituted with 1 to 3 substituent(s) R<sub>9</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>- $C_6$ )alkylamino( $C_1$ - $C_6$ )alkyl, ( $C_1$ - $C_6$ )alkoxy, ( $C_1$ - $C_6$ )alkoxy( $C_1$ - $C_6$ )alkyl, carboxyl,  $(C_1-C_6)$ alkyl-CO-,  $(C_1-C_6)$ alkyl-CO-O-,  $(C_1-C_6)$ alkoxy-CO-,  $(C_1-C_6)$ alkoxy-CO- $(C_1-C_6)$ alkoxy-CO- $C_6$ )alkyl, carbamoyl mono- or di( $C_1$ - $C_6$ )alkylcarbamoyl or oxo;

 $R_6$  is H, hydroxy,  $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or  $R_6$  forms a bond between the ring atom to which it is attached and the ring atom to which  $R_7$  is attached;

 $R_7$  is H, hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl;

 $R_8$  is H,hydroxy,  $(C_1-C_6)$ alkyl, hydroxy $(C_1-C_6)$ alkyl,  $(C_1-C_6)$ alkoxy or  $(C_1-C_6)$ alkoxy $(C_1-C_6)$ alkyl or, only when n is 0,  $R_7$  and  $R_8$  form, together with the carbon ring atoms to which they are attached, a condensed five to seven membered saturated



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carbocyclic ring unsubstituted or substituted with 1 to 3 substituent(s) R<sub>10</sub> each independently being hydroxy, (C<sub>1</sub>-C<sub>6</sub>)alkyl, halogen, NH<sub>2</sub>, NO<sub>2</sub>, (C<sub>3</sub>-C<sub>7</sub>)cycloalkyl, hydroxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, halo(C<sub>1</sub>-C<sub>6</sub>)alkyl, amino(C<sub>1</sub>-C<sub>6</sub>)alkyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylamino(C<sub>1</sub>-C<sub>6</sub>)alkyl, (C<sub>1</sub>-C<sub>6</sub>)alkoxy, (C<sub>1</sub>-C<sub>6</sub>)alkoxy(C<sub>1</sub>-C<sub>6</sub>)alkyl, carboxyl, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl-CO-o-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkoxy-CO-, (C<sub>1</sub>-C<sub>6</sub>)alkyl, carbamoyl, mono- or di(C<sub>1</sub>-C<sub>6</sub>)alkylcarbamoyl or oxo;

 $R_{15} \text{ is H, } (C_1\text{-}C_6)\text{alkyl, } (C_2\text{-}C_6)\text{alkenyl, hydroxy}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkyl, hydroxy}(C_1\text{-}C_6)\text{alkoxy}(C_1\text{-}C_6)\text{alkyl, halo}(C_1\text{-}C_6)\text{alkyl, amino}(C_1\text{-}C_6)\text{alkyl, mono- or di}(C_1\text{-}C_6)\text{alkylamino}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkyl-CO-, } (C_1\text{-}C_6)\text{alkyl-CO-}(C_1\text{-}C_6)\text{alkyl, } (C_1\text{-}C_6)\text{alkoxy-CO-, } (C_1\text{-}C_6)\text{alkoxy-CO-}(C_1\text{-}C_6)\text{alkoxy-CO-}(C_1\text{-}C_6)\text{alkoxy-CO-}(C_1\text{-}C_6)\text{alkoxy-CO-}(C_1\text{-}C_6)\text{alkyl, carbamoyl, mono- or di}(C_1\text{-}C_6)\text{alkylcarbamoyl or carboxyl;}$ 

 $R_{16}$  is H or ( $C_1$ - $C_6$ )alkyl;  $R_1$  and  $R_8$  are attached to the carbon ring atoms; which are adjacent; m is 0 to 2; and  $\bar{n}$  is 1.

or a pharmaceutically acceptable salt and ester thereof, with the proviso, that the compound is not 2,3,4,5,7,8,13,13b-octahydro-2,3-diethyl-1H-

azepino[1',2':1,2]pyrido[3,4-b]iiidölē, acētic acid 2,3,4,5,7,8,13,13b-octahydro-1H-azepino[1',2':1,2]pyrido[3,4-b]indol-2-ylmethyl ester; 2,3,4,5,7,8,13,13b-octahydro-1H-azepino[1',2':1,2]pyrido[3,4-b]indole-2-[(phenylmethoxy)methyl] or 2,3,4,5,7,8,13,13b-octahydro-1H-azepino[1',2':1,2]pyrido[3,4-b]indole-4-ethyl-2-[(phenylmethoxy)methyl].

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- 31. A compound according to claim 30, wherein the compound is 2,3,4,5,7,8,13,13b-octahydro-1H-azepino[1',2':1,2]pyrido[3,4-b]indole.
- 32. A compound which is 2β-Methoxy-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizine, 2α-methoxy-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizine, 1α-Ethyl-2α-methyl-1,2,3,4,6,7,12,12bβ-octahydro-indolo[2,3-a]quinolizin-1-ol, 1α-Isopropyl-1,2,3,4,6,7,12,12bβ-octahydro-indolo[2,3-a]quinolizin-1-ol, (-)-1α-isopropyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-ol, (-)-1α-isopropyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quin





- a]quinolizin-1-yl)-methanol, 2-(1α,2,3,4,6,7,12,12bβ-Octahydro-indolo[2,3-a]quinolizin-1-yl)-butan-2-ol, 1-(1,2α,3,4,6,7,12,12bα-Octahydro-indolo[2,3-a]quinolizin-2-yl)-propan-1-ol, 2-(1α,2,3,4,6,7,12,12bβ-Octahydro-indolo[2,3-a]quinolizin-1-yl)-propan-2-ol, 1-s-Butyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-ol, 1-Cyclohexyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-ol, 1-Cyclohexyl-1,2,3,4,6,7,12,12bβ-octahydroindolo
- a]quinolizin-1-ol, 9-Fluoro-1α-isopropyl-1,2,3,4,6,7,12,12bβ-octahydro-indolo[2,3-a]quinolizin-1-ol, (1α-Methyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-yl)-methanol, (-)-(1α-Methyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-yl)-methanol, (+)-(1α-Methyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-yl)-methanol, (1α-Ethyl-1,4,6,7,12,12bβ-
- hexahydroindolo[2,3-a]quinolizin-1-yl)-methanol, 3β,4α-Dimethyl1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizine, (1,2α,3,4,6,7,12,12bαOctahydroindolo[2,3-a]quinolizin-2-yl)-propan-2-ol, (1,2α,3,4,6,7,12,12bβQetahydroindolo[2,3-a]quinolizin-2-yl)-propan-2-ol, (2α-Ethyl-1,2,3,4,6,7,12,12bβoctahydroindolo[2,3-a]quinolizin-2-yl)-methanol, (2α-Ethyl-1,2,3,4,6,7,12,12bβ-
- octahydroindolo[2,3-a]quinolizin-2-yl)-methanol, (1-αEthyl-1,2,3,4,6,7,12,12bβ-octahydroindolo[2,3-a]quinolizin-1-ylmethoxy)-acetic acid ethyl ester, 1-(2α-ethyl-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-2-yl)-ethanone, 1-(2α-ethyl-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-2-yl)-ethanol, 2-(2α-ethyl-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-2-yl)-propan-2-ol, 2-(3-ethyl-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-2-yl)-propan-2-ol, 2-(3-ethyl-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-2-yl]-propan-2-ol, 2-(3-ethyl-1,2,3,4,6,7,12,12bα-octahydro-indolo[2,3
- 25 1,2α,3α,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-2-yl)-propan-2-ol, (3-ethyl-2-methyl-1α,2β,3β,4,6,7,12,12bβ-octahydro-indolo[2,3-a]quinolizin-1-yl)-methanol, 3-ethyl-1,2-dimethyl-1α,2β,3β,4,6,7,12,12bβ-octahydro-indolo[2,3-a]quinolizin-1β-ol, (1-ethyl-2-methyl-1β,2β,3β,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-1β-ol, (1-ethyl-2-methyl-1β,2β,3β,4,6,7,12,12bα-octahydro-indolo[2,3-a]quinolizin-
- 3-yl)-methanol, 1-β-Hydroxymethyl-1-methyl-1,2,3,4,6,7,12,12bβ-octahydro-indolo[2,3-a]quinolizine-6β-carboxylic acid methyl ester,

5,6,7,7aβ,8,9,10,11,11aβ,11bα-Decahydro-12-oxa-6a-aza-indeno[1,2-a]fluorene, 2,3,4,4aβ,5,6,7,8,13bβ,13cβ-Decahydro-1H-13-oxa-6a-aza-indeno[1,2-c]phenanthrene, 2,3,4,4aβ,5,6,7,8,13bα,13cβ-Decahydro-1H-13-oxa-6a-aza-indeno[1,2-c]phenanthrene, 2,3,4,4aβ,5,6,7,8,13,13bβ-decahydro-1H-6a,13-diaza-indeno[1,2-c]phenanthren-13cβ-ol, (-)-2,3,4,4aβ,5,6,7,8,13,13bβ-decahydro-1H-6a,13-diaza-indeno[1,2-c]phenanthren-13cβ-ol, (+)-2,3,4,4aβ,5,6,7,8,13,13bβ-decahydro-1H-6a,13-diaza-indeno[1,2-c]phenanthren-13cβ-ol, (2,3,4,4aβ,5,6,7,8,13,13bβ-Decahydro-1H-6a,13-diaza-indeno[1,2-c]phenanthrenyl)-13cβ-methanol or 5,6,7,7a,11,11b,12-Decahydro-6a,12-diaza-indeno[1,2-a]fluoren-11a-ol.

- 33. A pharmaceutical composition comprising at least one compound according to any one of claims 15 to 32 and a pharmaceutically acceptable diluent, carrier and/or excipient.
- 34. A compound according to any one of claims 15 to 32 for use as a medicament.
- 35. A method for the treatment of a disease or condition where an antagonist of alpha-2 adrenoceptors is indicated to be useful, which comprises administering to a mammal in need of the treatment an effective amount of at least one compound according to claim 1.

